



Solar Photovoltaic Case Study

El Rio Neighborhood Center
1390 West Speedway Boulevard

TECHNICAL SPECIFICATIONS:

- Installed August 2009.
- 23.94 kW DC; 19.15 kW AC.
- 114 210W KD210GX-LP Kyocera polycrystalline PV panels.
- 3 SMA 7000 W Inverters.
- Greenhouse gas reduction -approximately 31.1 metric tons CO₂/year.



PROJECT DESCRIPTION:

- Addition to existing solar site on El Rio Adult Education Center.
- Uses Tucson-built Schletter non penetrating roof mounting system with ballasted racks.
- Output of 36,619 kWh per year is approximately 9% of the building load.
- SPG Solar, Inc. guarantees electrical output for 5 years and provides maintenance services for 10 years.
- System production viewable on Fat Spaniel's website at <http://tiny.cc/OphNe>.

FINANCIAL DETAILS:

- Project paid for through an allocation of Clean Renewable Energy Bonds (CREBs).
- 13 year payback period at 0% interest.
- Bonds repaid through TEP rebates and electricity charges to building owner.
- Total design and installation costs - \$261,598.



- For additional information go to: <http://www.tucsonaz.gov/energy/>